

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system comprising:
an optical element;
at least one structure at least partially in a non-opaque portion of the optical element and at least adjacent a surface of the optical element; and
a source of light with a mode profile that provides an electric field which has a vector component substantially perpendicular to the surface of the optical element, the source positioned to propagate at least a portion of the light through the optical element on to an object, the structure enhancing the electric field of the light which optically interacts with the object.
2. (Original) The system as set forth in claim 1 further comprising a guiding system that moves at least one of the optical element with the structure or the object.
3. (Original) The system as set forth in claim 1 further comprising a focusing lens positioned to focus the light from the source on to the optical element.
4. (Original) The system as set forth in claim 1 wherein the optical element is a solid immersion lens.
5. (Original) The system as set forth in claim 1 wherein the optical element is an optical waveguide.
6. (Original) The system as set forth in claim 1 wherein the structure is elongated and has at least one tip.
7. (Original) The system as set forth in claim 1 wherein the structure protrudes out past the surface of the optical element.

8. (Currently Amended) The lens system as set forth in claim 7 further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical element.

9. (Currently Amended) The lens system as set forth in claim 1 wherein the optical element comprises an optical base and an optical layer connected to the optical base, the structure is at least partially in and at least adjacent to a surface of the optical layer.

10. (Currently Amended) The lens system as set forth in claim 9 wherein the structure is elongated and protrudes out past the surface of the optical layer.

11. (Currently Amended) The lens system as set forth in claim 10 further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical layer.

12. (Currently Amended) The lens system as set forth in claim 9 further comprising an opening extending through the optical layer, wherein the structure is located in at least a portion of the opening.

13. (Currently Amended) The lens system as set forth in claim 12 wherein at least a portion of the opening has a conical shape and wherein the sides of the conical portion are substantially straight.

14. (Currently Amended) A method comprising:
providing an optical element with at least one structure at least partially in a non-opaque portion of the optical element and at least adjacent to a surface of the optical element; and
directing light with a mode profile through at least a portion of the optical element on to an object, the structure enhancing the electric field of the light which optically interacts with the object.

15. (Original) The method as set forth in claim 14 further comprising guiding at least one of the directed light or the object.

16. (Original) The method as set forth in claim 14 further comprising focusing the light on to the optical element.

17. (Original) The method as set forth in claim 14 wherein the optical element is a solid immersion lens.

18. (Original) The method as set forth in claim 14 wherein the optical element is an optical waveguide.

19. (Original) The method as set forth in claim 14 wherein the structure is elongated and has at least one tip.

20. (Original) The method as set forth in claim 14 wherein the structure protrudes out past the surface of the optical element.

21. (Original) The method as set forth in claim 20 further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical layer.

22. (Original) The method as set forth in claim 14 wherein the provided optical element comprises an optical base and an optical layer connected to the optical base, the structure is at least partially in and at least adjacent to a surface of the optical layer.

23. (Original) The method as set forth in claim 22 wherein the structure is elongated and protrudes out past the surface of the optical layer.

24. (Original) The method as set forth in claim 23 further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical layer.

25. (Original) The method as set forth in claim 22 further comprising an opening extending through the optical layer, wherein the structure is located in at least a portion of the opening.

26. (Currently Amended) The method as set forth in claim 25 wherein at least a portion of the opening has a conical shape and wherein the sides of the conical portion are substantially straight.

27. (Currently Amended) A lens comprising:
an optical element; and
a structure at least partially in a non-opaque portion of the optical element and at least adjacent a surface the optical element.

28. (Original) The lens as set forth in claim 27 wherein the structure is elongated and has at least one tip.

29. (Original) The lens as set forth in claim 27 wherein the structure protrudes out past the surface of the optical element.

30. (Currently Amended) The lens as set forth in claim 29 further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical ~~layer~~ element.

31. (Original) The lens as set forth in claim 27 wherein the optical element comprises an optical base and at least one optical layer connected to the optical base, the structure is at least partially in and at least adjacent to a surface of the optical layer.

32. (Original) The lens as set forth in claim 31 wherein the structure is elongated and protrudes out past the surface of the optical layer.

33. (Original) The lens as set forth in claim 32 further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical layer.

34. (Original) The lens as set forth in claim 31 further comprising an opening extending through the optical layer, wherein the structure is located in at least a portion of the opening.

35. (Currently Amended) The lens as set forth in claim 34 wherein at least a portion of the opening has a conical shape and wherein the sides of the conical portion are substantially straight.

36. (Currently Amended) A method for making a lens, the method comprising:

providing an optical element;

forming at least one opening in a non-opaque portion of the optical element and adjacent a surface of the optical element; and

depositing a material in the at least one opening to form a structure.

37. (Original) The method as set forth in claim 36 wherein the structure is elongated and has at least one tip.

38. (Original) The method as set forth in claim 36 wherein the structure protrudes out past the surface of the optical element.

39. (Original) The method as set forth in claim 36 further comprising coating over at least a portion of the structure in the at least one opening.

40. (Currently Amended) The method as set forth in claim ~~27~~ 36 wherein the providing the optical element further comprises connecting an optical layer to an optical base, wherein the forming the at least one opening is at least partially in and at least adjacent to a surface of the optical layer and the depositing the material is in the at least one opening.

41. (Original) The method as set forth in claim 40 wherein the structure is elongated and protrudes out past the surface of the optical layer.

42. (Currently Amended) The method as set forth in claim 43 ~~41~~ further comprising a coating over at least a portion of the structure that protrudes out past the surface of the optical layer.

43. (Original) The method as set forth in claim 40 wherein the forming the opening further comprises forming the opening to extend through the optical layer.

44. (Currently Amended) The method as set forth in claim 44 ~~43~~ wherein the forming the opening further comprises forming at least a portion of the opening to have a conical shape and wherein the sides of the conical portion are substantially straight.

45. (Currently Amended) A system comprising:
at least one ~~optical element~~ elliptical shaped mirror;
at least one structure positioned to optically interact with the ~~optical element~~ elliptical shaped mirror; and
a source of light with a mode profile that provides an electric field which has a vector component substantially perpendicular to a surface of the ~~optical element~~ the elliptical shaped mirror, the ~~optical element~~ structure focusing at least a portion of the light on to at least a portion of the ~~structure~~ elliptical shaped mirror, the elliptical shaped mirror focusing the at least a portion of the light on to at least another portion of the structure enhancing the electric field of the light which optically interacts with an adjacent object.

46. (Currently Amended) The system as set forth in claim 45 further comprising a guiding system that moves at least one of the ~~optical element~~ elliptical shaped mirror or the object.

47. (Currently Amended) The system as set forth in claim 45 wherein the ~~at least one optical element~~ is at least one elliptical shaped mirror comprises a pair of elliptical shaped mirrors.

48. (Original) The system as set forth in claim 45 wherein the structure is elongated and has at least one tip.

49. (Currently Amended) A method comprising:

providing at least one ~~optical element~~ elliptical shaped mirror and at least one structure positioned to optically interact with the ~~optical element~~ elliptical shaped mirror; and

directing light with a mode profile with ~~the optical element~~ at least a portion of the structure on to at least a portion of the ~~structure~~ elliptical shaped mirror, the elliptical shaped mirror focusing the light on to at least another portion of the structure enhancing the electric field of the light which optically interacts with an adjacent object.

50. (Original) The method as set forth in claim 49 further comprising guiding at least one of the directed light or the object.

51. (Currently Amended) The method as set forth in claim 49 wherein the ~~at least one optical element~~ is at least one elliptical shaped mirror comprises a pair of elliptical shaped mirrors.

52. (Original) The method as set forth in claim 49 wherein the structure is elongated and has at least one tip.